

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

Claims 1-13 (Cancelled)

14. (Currently Amended) A process for the cryo-preservation of a primary regeneration tissue explant comprising the ~~step of~~ following steps:
cultivating a plant tissue on an induction medium for a time sufficient to induce a primary regeneration tissue comprising embryogenic cells;
culturing the primary regenerating tissue on a multiplication medium for a time sufficient to maintain a stable proliferation of the primary regeneration tissue; and
cryofreezing the primary regeneration tissue explant, ~~wherein the primary explant comprises a plant tissue that has been subjected to an induction medium for a time sufficient to induce a primary regenerating tissue.~~
15. (Currently Amended) The process of claim 14, further comprising a two step incubation of the primary regeneration tissue explant, wherein the primary regeneration tissue explant is first incubated in a medium containing 0.4 M sucrose followed by incubating the primary regeneration tissue explant in a medium containing 1 M sucrose.
16. (Currently Amended) The process of claim 14, further comprising the step of dehydrating the primary regeneration tissue explant prior to cryofreezing.
17. (Currently Amended) The process of claim 16, wherein the dehydration step involves placing the primary regeneration tissue explant in an air current of a laminar flow cabinet, in a stream of compressed air, or in an airtight container together with silica gel or various over-saturated salt solutions to control the relative humidity.
18. (Currently Amended) The process of claim 14, further comprising the step of pre-freezing the primary regeneration tissue explant prior to cryofreezing.
19. (Previously Presented) The process of claim 18, wherein the pre-freezing temperature is between -20°C and -40°C.

20. (Previously Presented) The process of claim 14, wherein the plant tissue utilized is derived from a cocoa, coffee, or carrot plant.
21. (Previously Presented) The process of claim 20, wherein the plant tissue utilized is derived from *Coffea canephora* or *Coffea arabica*.
22. (Previously Presented) The process of claim 20, wherein the plant tissue utilized is derived from *Theobroma cacao*.
23. (Previously Presented) The process of claim 20, wherein the plant tissue utilized is derived from *Daucus carota*.
24. (Currently Amended) A process for the cryo-preservation of a primary regeneration tissue explant comprising the steps of:
incubating a plant tissue in an induction medium for a time sufficient to induce a primary regeneration tissue comprising embryogenic cells ~~explant~~;
dehydrating the primary regeneration tissue explant ~~to a water content of at least 28 g/100g dry weight~~;
prefreezing the primary regeneration tissue explant to a temperature between -20°C and -40°C; and
cryofreezing the primary regeneration tissue explant.
25. (Currently Amended) The process of claim 24, wherein the prefreezing step comprises further comprising a two step incubation of the primary regeneration tissue explant, wherein the primary regeneration tissue explant is first incubated in a medium containing 0.4 M sucrose followed by incubating the primary regeneration tissue explant in a medium containing 1 M sucrose.
26. (Currently Amended) The process of claim 24, wherein the dehydration step involves placing the regeneration tissue ~~primary explant~~ in an air current of a laminar flow cabinet, in a stream of compressed air, or in an airtight container together with silica gel or various over-saturated salt solutions to control the relative humidity.

27. (Previously Presented) The process of claim 24, wherein the plant tissue utilized is derived from a cocoa, coffee, or carrot plant.
28. (Currently Amended) The process of claim 24, wherein the plant tissue utilized is derived from *Theobroma cacao*, *Coffea canephora* or *Coffea arabica*.
29. (Currently Amended) The process of claim 24, ~~wherein the plant tissue utilized is derived from *Theobroma cacao*~~ further comprising the step of culturing the primary regeneration tissue on a multiplication medium for a time sufficient to maintain a stable proliferation of primary regeneration tissue.
30. (Previously Presented) The process of claim 24, wherein the plant tissue utilized is derived from *Daucus carota*.
31. (Currently Amended) A process for the cryo-preservation of a primary regeneration tissue explant comprising the steps of:
incubating a ~~planting plant~~ plant tissue in an induction medium for a time sufficient to induce a primary ~~explant~~ regeneration tissue comprising embryogenic cells; and
cryofreezing the primary ~~explant~~ regeneration tissue.
32. (Currently Amended) The process of claim 31, further comprising the step of ~~dehydrating the primary explant to a water content of at least 28 g/100g dry weight~~ culturing the primary regeneration tissue on a multiplication medium for a time sufficient to maintain a stable proliferation of primary regeneration tissue.
33. (Currently Amended) The process of claim 31, further comprising the step of prefreezing the primary regeneration tissue explant to a temperature between -20°C and -40°C.